

# Work Order ID 64796

Friday, December 17, 2010 7:56:25 AM



Page 1

Item ID: D2565-105

Accept



Setup Start



Revision ID:

Item Name: Strut

Stop



Start Date: 12/16/2010 Start Qty: 8.00



Cust Item ID:

Required Date: 1/19/2011 Req'd Qty: 8.00



Customer:

Reference:

Approvals:

Process Plan:

*[Signature]*

Date: 10/27/11

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D2565

Rev E

100

0.00



NC BRAKE

Brake NC

Memo

0.00

Brake NC

Punch as per Dwg D2565 using DT 8313

*SB 11/01/19*



110

0.00



Small Fab

Small Fab

Memo

0.00

Small Fab

Drill hole open to .316 Ø as per Dwg D2565 (one end only)  
Deburr

*EM-1 11/01/19*

120

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

*Sub 01/20*



| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries

**Work Order ID 64796**

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Page 2

Item ID: D2565-105

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Setup Start



Revision ID:

Stop



Item Name: Strut

Start Date: 12/16/2010 Start Qty: 8.00



Cust Item ID:

Required Date: 1/19/2011 Req'd Qty: 8.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

White Gloss(Ref:4.3.5.2) per QSI005 4.3-Steel

0.00



Powdercoat

M 115951

Memo

0.00

Powder Coating

START TIME: 11:40  
OVEN TEMPERATURE: 400°  
FINISH TIME: 12:10

9

11-01-24

140

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

9

11/01/24

150

Identify as per dwg &amp; Stock Location: 270

0.00



Packaging

Memo

0.00

Packaging

11/1/24 @SD

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
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|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries

**Work Order ID 64796**

Friday, December 17, 2010 7:56:25 AM

Page 3

Item ID: D2565-105

Accept

Revision ID:

Item Name: Strut

Start Date: 12/16/2010 Start Qty: 8.00

Required Date: 1/19/2011 Req'd Qty: 8.00

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start  
Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

160

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/01/26

11/01/25

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
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|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries

# Picklist Print

Friday, December 17, 2010 7:56:29 AM

Page 1

Work Order ID: 64796

Parent Item: D2565-105

Parent Item Name: Strut



Start Date: 12/16/2010

Required Date: 1/19/2011

Start Qty: 8.00

Required Qty: 8.00

Comments: IPP: F 02.04.16 Added dwg Rev.C1 NG

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

M304TR0.750W.049

Purchased

No

100

f

217.0212

1.6825

14.16842



304 RD Tube .750 x .049W



SB 1/10/11

(9)

## Location

## Loc Qty

## Loc Code

MAT

202.401171

108498

0

110113

0

114482

6.6065

115010

15.074255

116108

180.720416

MAT014

0.00003

115990

0.00003

MAT017

14.62

109314

9.33

110113

5.29

1.6825

17

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
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|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

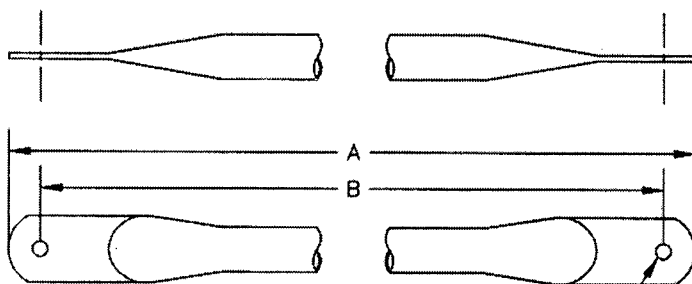
**NOTE:** Date & initial all entries





|                  |          |  |                        |
|------------------|----------|--|------------------------|
| DESIGN           | DRAWN BY | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA |                        |
| CHECKED          | APPROVED | DRAWING NO.<br>D2565                                     | REV. E<br>SHEET 1 OF 1 |
| DATE<br>04.05.05 |          | TITLE<br>STRUT   | SCALE<br>1:3           |
| A                | 96.05.03 | NEW ISSUE  |                        |
| B                | 97.03.15 | CORRECT D2565-111 DIM. A                                 |                        |
| C                | 98.10.05 | UPDATED MATERIAL NOTE (TSR A603)                         |                        |
| D                | 02.06.05 | ADD -3XX PARTS; ADD FINISH                               |                        |
| E                | 04.05.05 | ADD D2565-401-411; RMV ANGLE D                           |                        |

RELEASED  
04.5.05



DIA 0.257 TO BE PUNCHED  
"C" DIA TO BE OPENED MANUALLY  
PUNCH ENDS PER SPEC CONTROL DRAWING D2638

SHOP COPY.  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 44794  
P1012-17

| PART #    | A     | B     | DIA C |
|-----------|-------|-------|-------|
| D2565-101 | 20.52 | 19.72 | 0.316 |
| D2565-103 | 18.21 | 17.41 | 0.316 |
| D2565-105 | 20.19 | 19.39 | 0.316 |
| D2565-107 | 13.43 | 12.63 | -     |
| D2565-109 | 12.31 | 11.51 | -     |
| D2565-111 | 13.65 | 12.85 | -     |
| D2565-201 | 22.79 | 22.00 | 0.316 |
| D2565-203 | 20.75 | 19.95 | 0.316 |
| D2565-205 | 21.22 | 20.42 | 0.316 |
| D2565-207 | 16.07 | 15.27 | -     |
| D2565-209 | 15.16 | 14.36 | -     |
| D2565-211 | 14.14 | 13.34 | -     |
| D2565-301 | 27.03 | 26.23 | 0.316 |
| D2565-303 | 25.34 | 24.54 | 0.316 |
| D2565-305 | 23.73 | 22.93 | 0.316 |
| D2565-307 | 20.86 | 20.06 | -     |
| D2565-309 | 20.17 | 19.37 | -     |
| D2565-311 | 16.30 | 15.50 | -     |
| D2565-401 | 18.29 | 17.49 | 0.316 |
| D2565-403 | 15.64 | 14.84 | 0.316 |
| D2565-405 | 19.45 | 18.65 | 0.316 |
| D2565-407 | 10.79 | 9.99  | -     |
| D2565-409 | 9.34  | 8.54  | -     |
| D2565-411 | 13.81 | 13.01 | -     |

#### GENERAL NOTES

- 1) MATERIAL: AISI 304/316/318 SS 0.750 OD X 0.049 WALL  
(REF DART SPEC. M304TR0.750W0.049)  
ENSURE SEAMLESS TUBE IS USED
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

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| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
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| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries